

SETUP & OPERATION MANUAL

FEATURES

- Heavy duty cast-iron head, column and base built for steady, vibration-free performance.
- Head slides on precision machined cast-iron dovetail ways - stroke is controlled by a gas head-cylinder for smooth operation.
- Dual depth stop for complete control of both down stroke depth and upstroke travel.
- Left of right mount large feed handle with multi-position arm for better leverage and increased feed control.
- Includes an adjustable workpiece stop and hold-down.
- Totally enclosed fan cooled motor with start capacitor for smooth start-up and longer running life.
- Dust protected switch with large mushroomstyle stop button and lock-out safety feature to prevent unintentional start-up.
- Includes adapter bushings to accommodate both 5/8" and 3/4" sized chisel shanks.
- Large table with telescopic extensions for enhanced workpiece support.
- Non-marking rubber table rollers hold the workpiece firmly to the fence.
- Convenient tool holder.
- 1/4", 5/16", 3/8" and 1/2" mortising chisel and bit set included.

SPECIFICATIONS

CHISEL CAPACITY

1/4" TO 5/8" (6 TO 16 MM)

MAXIMUM CHISEL STROKE

5" (127 MM)

DISTANCE FROM FENCE TO CHISEL CENTER

4" (101 mm)

DISTANCE FROM CHISEL TO TABLE

(CHISEL 1/4")

5" (127 MM)

CHUCK CAPACITY

1/2" (13 MM)

FENCE SIZE

13 15/16" X 2 15/16" (355 MM X 75 MM)

TABLE SIZE

14 1/4" X 11 1/8" (362 X 283 MM)

BASE SIZE

15 9/16" x 17 1/8" (396 x 435 MM)

OVERALL HEIGHT

24 3/8" (620 MM)

SPINDLE SPEED

1720 RPM

MOTOR

1/2 HP, 110 V, 1 PH, 6 A

WEIGHT

99 LBS (45 KG)

5/8" HOLLOW CHISEL MORTISER



MODEL #75-040 MI



REVISION 2 - DECEMBER 2/10
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THANK YOU for choosing this General® International model 75-040 M1, 5/8" hollow chisel mortiser. This mortiser has been carefully tested and inspected before shipment and if properly used and maintained, will provide you with years of reliable service. For your safety, as well as to ensure optimum performance and trouble-free operation, and to get the most from your investment, please take the time to read this manual before assembling, installing and operating the unit.

The manual's purpose is to familiarize you with the safe operation, basic function, and features of this mortiser as well as the set-up, maintenance and identification of its parts and components. This manual is not intended as a substitute for formal woodworking instruction, nor to offer the user instruction in the craft of woodworking. If you are not sure about the safety of performing a certain operation or procedure, do not proceed until you can confirm, from knowledgeable and qualified sources, that it is safe to do so.

Once you've read through these instructions, keep this manual handy for future reference.

Disclaimer: The information and specifications in this manual pertain to the unit as it was supplied from the factory at the time of printing. Because we are committed to making constant improvements, General® International reserves the right to make changes to components, parts or features of this unit as deemed necessary, without prior notice and without obligation to install any such changes on previously delivered units. Reasonable care is taken at the factory to ensure that the specifications and information in this manual corresponds with

that of the unit with which it was supplied. However, special orders and "after factory" modifications may render some or all information in this manual inapplicable to your machine. Further, as several generations of this model of mortiser and several versions of this manual may be in circulation, if you own an earlier or later version of this unit, this manual may not depict your machine exactly. If you have any doubts or questions contact your retailer or our support line with the model and serial number of your unit for clarification.

GENERAL® & GENERAL® INTERNATIONAL WARRANTY

All component parts of General®, General® International and Excalibur by General International® products are carefully inspected during all stages of production and each unit is thoroughly inspected upon completion of assembly.

Limited Lifetime Warranty

Because of our commitment to quality and customer satisfaction, General® and General® International agree to repair or replace any part or component which upon examination, proves to be defective in either workmanship or material to the original purchaser for the life of the tool. *However, the Limited Lifetime Warranty does not cover any product used for professional or commercial production purposes nor for industrial or educational applications. Such cases are covered by our Standard 2-year Limited Warranty only. The Limited Lifetime Warranty is also subject to the "Conditions and Exceptions" as listed below.*

Standard 2-Year Limited Warranty

All products not covered by our lifetime warranty including products used in commercial, industrial and educational applications are warranted for a period of 2 years (24 months) from the date of purchase. General® and General® International agree to repair or replace any part or component which upon examination, proves to be defective in either workmanship or material to the original purchaser during this 2-year warranty period, subject to the "conditions and exceptions" as listed below.

To file a Claim

To file a claim under our Standard 2-year Limited Warranty or under our Limited Lifetime Warranty, all defective parts, components or machinery must be returned freight or postage prepaid to General® International, or to a nearby distributor, repair center or other location designated by General® International. For further details call our service department at 1-888-949-1161 or your local distributor for assistance when filing your claim.

Along with the return of the product being claimed for warranty, a copy of the original proof of purchase and a "letter of claim" must be included (a warranty claim form can also be used and can be obtained, upon request, from General® International or an authorized distributor) clearly stating the model and serial number of the unit (if applicable) and including an explanation of the complaint or presumed defect in material or workmanship.

CONDITIONS AND EXCEPTIONS:

This coverage is extended to the original purchaser only. Prior warranty registration is not required but documented proof of purchase i.e. a copy of original sales invoice or receipt showing the date and location of the purchase as well as the purchase price paid, must be provided at the time of claim.

Warranty does not include failures, breakage or defects deemed after inspection by General® or General® International to have been directly or indirectly caused by or resulting from; improper use, or lack of or improper maintenance, misuse or abuse, negligence, accidents, damage in handling or transport, or normal wear and tear of any generally considered consumable parts or components.

Repairs made without the written consent of General® International will void all warranty.

TABLE OF CONTENTS

Rules for safe operation	5	Basic Operations	13-14
Electrical requirements	6	Maintenance	15-16
Grounding instructions	6	Periodic maintenance	15
Circuit capacity	6	Sharpening chisels and bits	15
Extension cords	6	Lubrication	15
		Required maintenance	16
Identification of main parts and components	7	Recommended optional accessories	16
Basic functions	8	Diagram	17
Unpacking	8	Parts list	28
List of contents	8	Contact info	20
Clean up	8		
Assembly instructions	9-11		
Installation	9		
Mounting to a work surface	9		
Raise the mortiser head	9		
Attach the workpiece stop	9		
Install the down feed handle	10		
Attach the tool and chisel holder	10		
Install a chisel and bit set	10		
To square the chisel to the fence	11		
Basic adjustments & controls	12-13		
Connecting to a power source	12		
On / off power switch	12		
Setting the depth stop	12		
Table extensions	13		

RULES FOR SAFE OPERATION

To help ensure safe operation, please take a moment to learn the machine's applications and limitations, as well as potential hazards. General® International disclaims any real or implied warranty and holds itself harmless for any injury that may result from improper use of its equipment.

1. Do not operate the mortiser when tired, distracted, or under the effects of drugs, alcohol or any medication that impairs reflexes or alertness.
2. The working area should be well lit, clean and free of debris.
3. Keep children and visitors at a safe distance when the mortiser is in operation; do not permit them to operate the mortiser.
4. Childproof and tamper proof your shop and all machinery with locks, master electrical switches and switch keys, to prevent unauthorized or unsupervised use.
5. **Stay alert!** Give your work your undivided attention. Even a momentary distraction can lead to serious injury.
6. Fine particulate dust is a carcinogen that can be hazardous to health. Work in a well-ventilated area and whenever possible use a dust collector and wear eye, ear and respiratory protection devices.
7. Do not wear loose clothing, gloves, bracelets, necklaces or other jewelry while the mortiser is in operation.
8. Be sure that adjusting wrenches, tools, drinks and other clutter are removed from the machine and/or the table surface before operating.
9. Keep hands well away from the mortising chisel, bit and all moving parts. Use a hold-down or clamp to secure the stock, and use a brush, not hands, to clear away chips and dust.
10. Be sure that the mortising chisel and bit are securely installed in the chuck before operation.
11. Be sure the mortising bit has gained full operating speed before beginning to drill.
12. Always use a clean, properly sharpened chisel and bit set. Dirty or dull chisels and bits are unsafe and can lead to accidents.
13. Use suitable work piece support if the work piece does not have a flat surface.
14. Do not push or force the chisel and bit into the stock. The mortiser will perform better and more safely when working at the rate feed for which it was designed.
15. Avoid working from awkward or off balance positions. Do not overreach and keep both feet on floor.
16. Never leave the machine unattended while it is running or with the power on.
17. Use of parts and accessories NOT recommended by GENERAL® INTERNATIONAL may result in equipment malfunction or risk of injury.
18. Never stand on machinery. Serious injury could result if the tool is tipped over or if the mortiser chisel and bit are unintentionally contacted.
19. Always disconnect the tool from the power source before servicing or changing accessories such as chisel and bit sets, or before performing any maintenance, cleaning, or if the machine will be left unattended.
20. Make sure that the switch is in the "OFF" position before plugging in the power cord.
21. Make sure the tool is properly grounded. If equipped with a 3-prong plug, it should be used with a three-pole receptacle. Never remove the third prong.
22. Do not use this mortiser for other than its intended use. If used for other purposes, GENERAL® INTERNATIONAL disclaims any real implied warranty and holds itself harmless for any injury, which may result from that use.

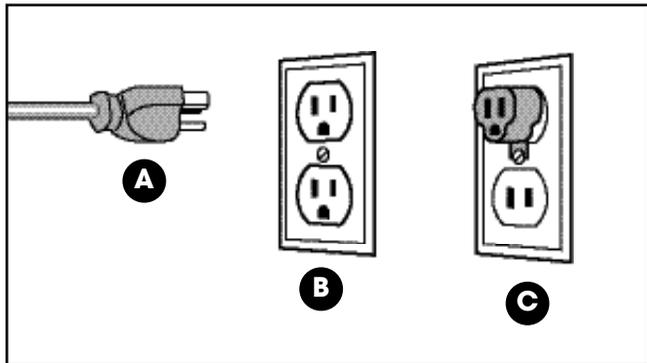


ELECTRICAL REQUIREMENTS



BEFORE CONNECTING THE MACHINE TO THE POWER SOURCE, VERIFY THAT THE VOLTAGE OF YOUR POWER SUPPLY CORRESPONDS WITH THE VOLTAGE SPECIFIED ON THE MOTOR I.D. NAMEPLATE. A POWER SOURCE WITH GREATER VOLTAGE THAN NEEDED CAN RESULT IN SERIOUS INJURY TO THE USER AS WELL AS DAMAGE TO THE MACHINE. IF IN DOUBT, CONTACT A QUALIFIED ELECTRICIAN BEFORE CONNECTING TO THE POWER SOURCE.

THIS TOOL IS FOR INDOOR USE ONLY. DO NOT EXPOSE TO RAIN OR USE IN WET OR DAMP LOCATIONS.



GROUNDING INSTRUCTIONS

In the event of an electrical malfunction or short circuit, grounding reduces the risk of electric shock. The motor of this machine is wired for 110V single phase operation and is equipped with a 3-conductor cord and a 3-prong grounding plug **A** to fit a grounded type receptacle **B**. Do not remove the 3rd prong (grounding pin) to make it fit into an old 2-hole wall socket or extension cord. If an adaptor plug is used **C**, it must be attached to the metal screw of the receptacle.

Note: The use of an adaptor plug is illegal in some areas. Check your local codes. If you have any doubts or if the supplied plug does not correspond to your electrical outlet, consult a qualified electrician before proceeding.

CIRCUIT CAPACITY

Make sure that the wires in your circuit are capable of handling the amperage draw from your machine, as well as any other machines that could be operating on the same circuit. If you are unsure, consult a qualified electrician. If the circuit breaker trips or the fuse blows regularly, your machine may be operating on a circuit that is close to its amperage draw capacity. However, if an unusual amperage draw does not exist and a power failure still occurs, contact a qualified technician or our service department.

EXTENSION CORDS

If you find it necessary to use an extension cord with your machine, use only 3-wire extension cords that have 3-prong grounding plug and a matching 3-pole receptacle that accepts the tool's plug. Repair or replace a damaged extension cord or plug immediately.

Make sure the cord rating is suitable for the amperage listed on the motor I.D. plate. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. The accompanying chart shows the correct size extension cord to be used based on cord length and motor I.D. plate amp rating. If in doubt, use the next heavier gauge. The smaller the number, the heavier the gauge.

AMPERES (AMPS)	EXTENSION CORD LENGTH			
	25 FEET	50 FEET	100 FEET	150 FEET
< 5	18	16	16	14
6 TO 10	18	16	14	12
10 TO 12	16	16	14	14
12 TO 16	14	12	* NR	* NR

* NR = Not Recommended

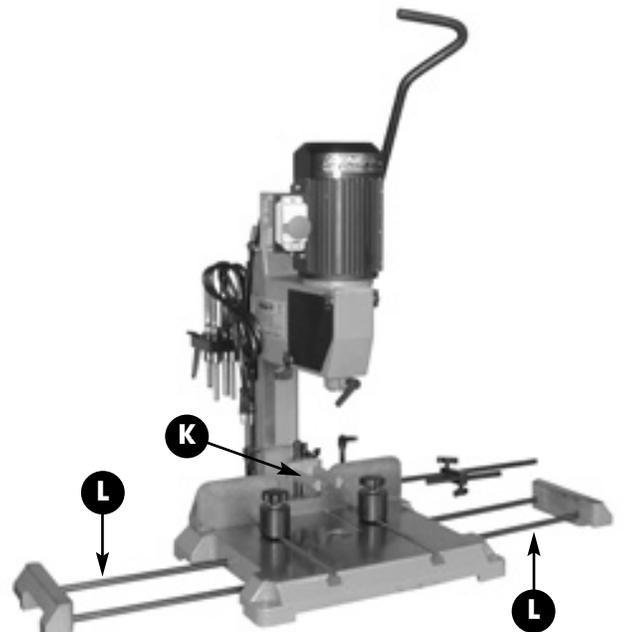
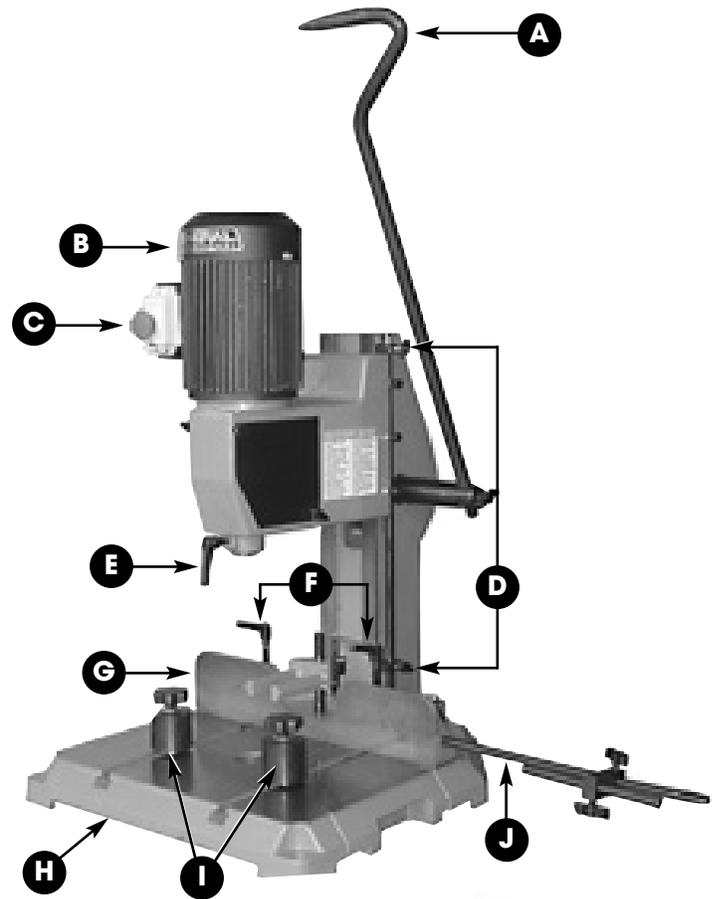


5/8" HOLLOW CHISEL MORTISER 75-040 M1

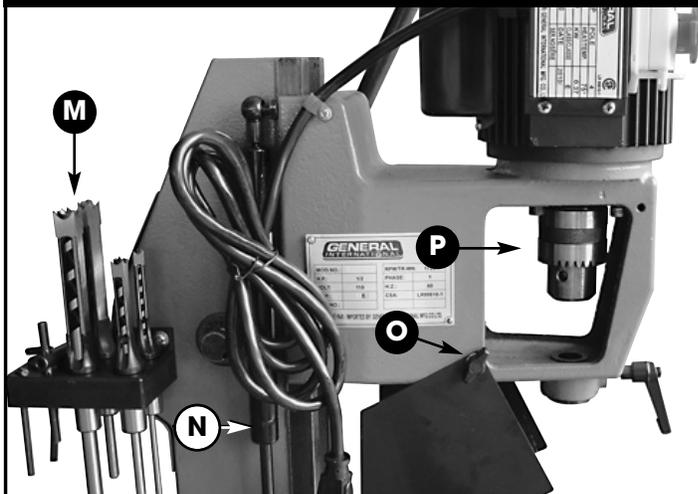
IDENTIFICATION OF MAIN PARTS AND COMPONENTS

LEFT AND RIGHT SIDE VIEW

- A- DOWNFEED HANDLE
- B- MOTOR
- C- ON/OFF SWITCH
- D- DUAL DEPTH STOP
- E- CHISEL LOCKING LEVER
- F- FENCE LOCKING LEVERS
- G- FENCE
- H- BASE
- I- TABLE ROLLERS
- J WORKPIECE STOP
- K- WORKPIECE HOLD-DOWN
- L- TABLE EXTENSIONS
- M- TOOL AND CHISEL HOLDER
- N- GAS HEAD-CYLINDER
- O- SLIDE PLATE LOCK KNOB
- P- CHUCK



HEAD



BASIC FUNCTIONS

This hollow chisel mortiser is designed to cut 90° mortises in solid wood as well as other wood based stock. This mortiser is designed to tackle a wide range of mortising applications suited to both hobbyist and professional users.

Ideal for use in any furniture making or cabinet making applications that require mortise and tenon joinery, the unit is supplied with a set of 4 different sized chisel and bits to help the user cut mortises of varying widths to suit the application. The unit is also supplied with 2 different sized chisel bushings, allowing the user to install chisel and bit sets of either 5/8" (4 supplied) or 3/4" (commonly available from other after-market sources) shank diameter.

This mortiser is designed to accommodate chisel and bit set sizes ranging from a minimum of 1/4" up to a maximum of 5/8".

UNPACKING

Carefully unpack and remove the mortiser and its components from the box and check for damaged or missing items as per the list of contents below.

NOTE: Please report any damaged or missing items to your General International distributor immediately.

LIST OF CONTENTS

QTY

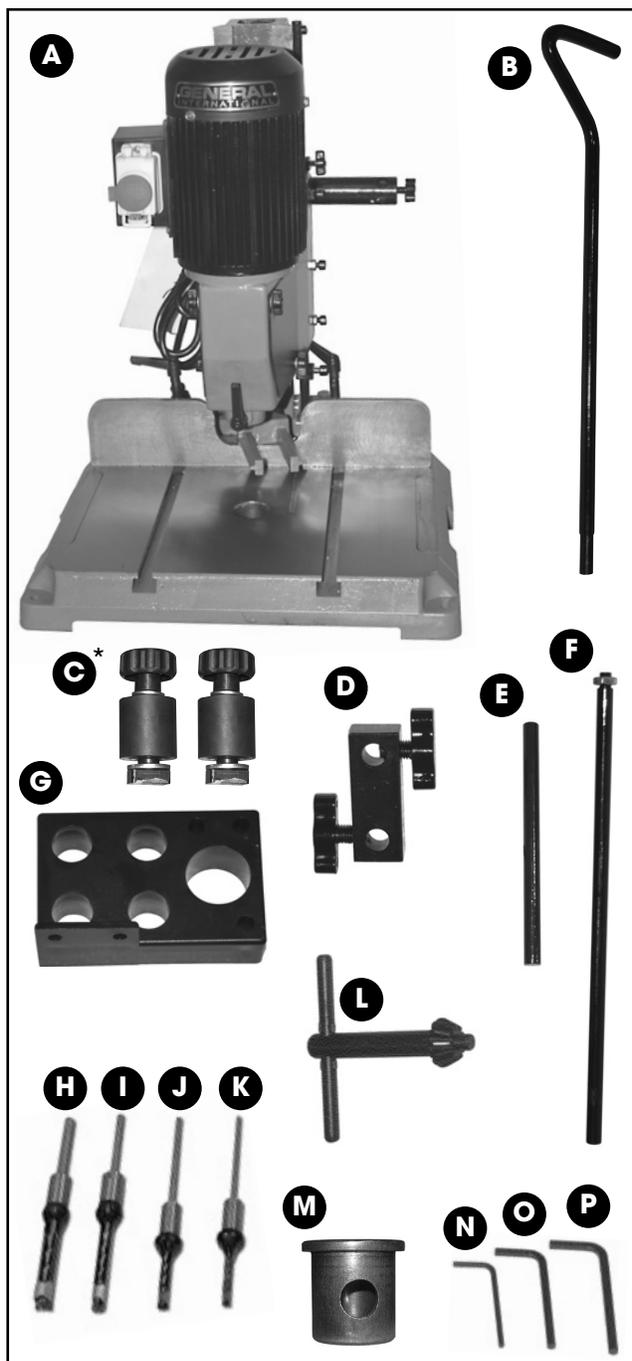
A-	MORTISER.....	1
B-	DOWNFEED HANDLE	1
C-	TABLE ROLLERS*	2
D-	STOP BAR BLOCK.....	1
E-	STOP BAR (SHORT).....	1
F-	STOP BAR (LONG) / W NUT	1
G-	TOOL & CHISEL HOLDER	1
H-	1/4" - 6 MM CHISEL AND BIT.....	1
I-	5/16" - 8 MM CHISEL AND BIT.....	1
J-	3/8" - 10 MM CHISEL AND BIT.....	1
K-	1/2" - 13 MM CHISEL AND BIT.....	1
L-	CHUCK KEY.....	1
M-	3/4" SHANK BUSHING ADAPTER.....	1
N-	3 MM ALLEN KEY	1
O-	4 MM ALLEN KEY	1
P-	5 MM ALLEN KEY	1

*Already installed on the mortiser table.

CLEAN UP

Clean all rust protected surfaces by rubbing with a rag dipped in kerosene, mineral spirits or paint thinner. (Dispose of potentially flammable solvent-soaked rags according to manufacturer's safety recommendations.) Avoid rubbing any painted surfaces, as many solvent-based products will remove paint.

To prevent rust, apply a light coating of paste wax or use regular applications of any after-market surface protectant or rust inhibitor.



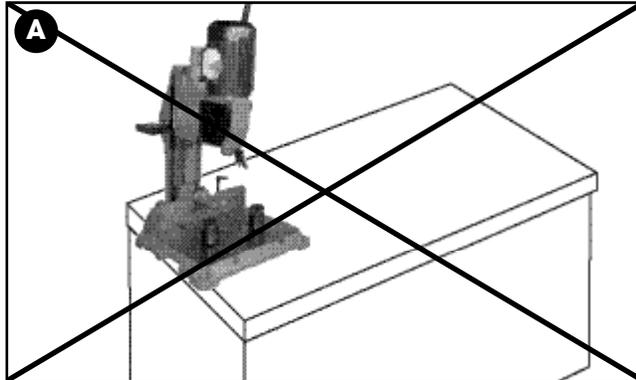
ASSEMBLY INSTRUCTIONS

For your convenience this mortiser is shipped from the factory partially assembled and requires only minimal assembly and set up before being put into service.



SERIOUS PERSONAL INJURY COULD OCCUR IF YOU CONNECT THE MACHINE TO THE POWER SOURCE BEFORE YOU HAVE COMPLETED THE ASSEMBLY STEPS. DO NOT CONNECT THE MACHINE TO THE POWER SOURCE UNTIL INSTRUCTED TO DO SO.

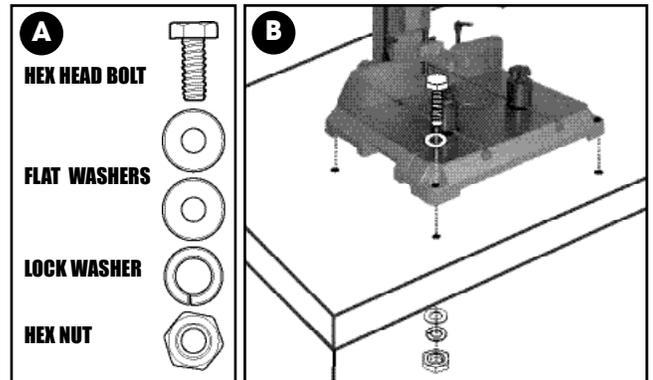
INSTALLATION



This machine should be installed and operated only on a flat, sturdy and stable surface able to support the weight of the machine (99 lbs - 45 kg) and the workpiece with ease.

Note: Never install the machine over the edge of a table or workbench **A**.

MOUNTING TO A WORK SURFACE

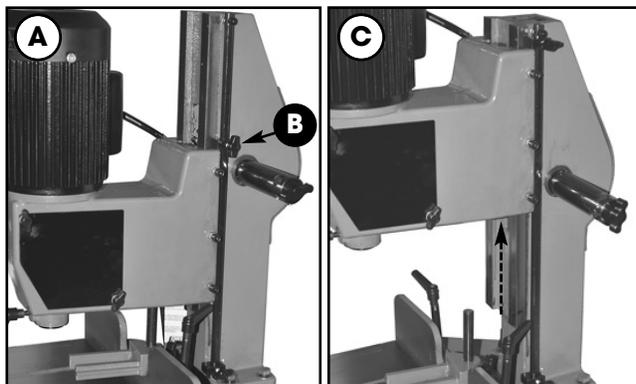


If a permanent shop placement is practical, consider drilling matching through holes in the mounting surface of your workbench or stand's platform to bolt the mortiser in place using hex bolts, flat washers, lock washers and hex nuts **A** (fasteners not included), in the assembly order shown in **B**.



FOR YOUR SAFETY IT IS ESSENTIAL THAT THE MORTISER DOES NOT ROCK OR TIP DURING OPERATION. MAKE SURE THAT THE MORTISER IS FIRMLY SECURED TO THE WORK SURFACE OR STAND'S PLATFORM AND THAT THERE IS NO ROCKING, TIPPING OR CHATTERING.

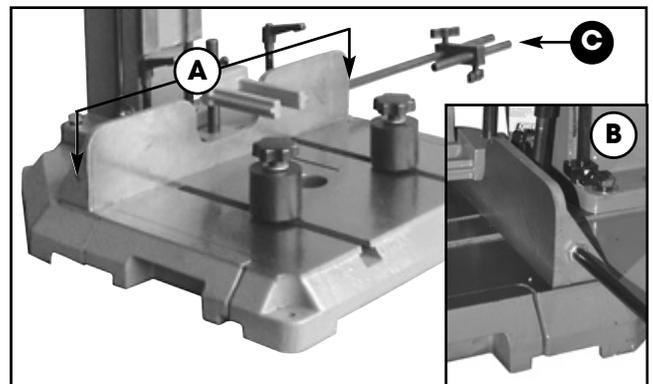
RAISE THE MORTISER HEAD



This mortiser is shipped from the factory with the head lowered to its lowest position as shown in **A**.

1. Loosen the upstroke lock knob, **B**, to allow the head to raise to its highest position as shown in **C**.

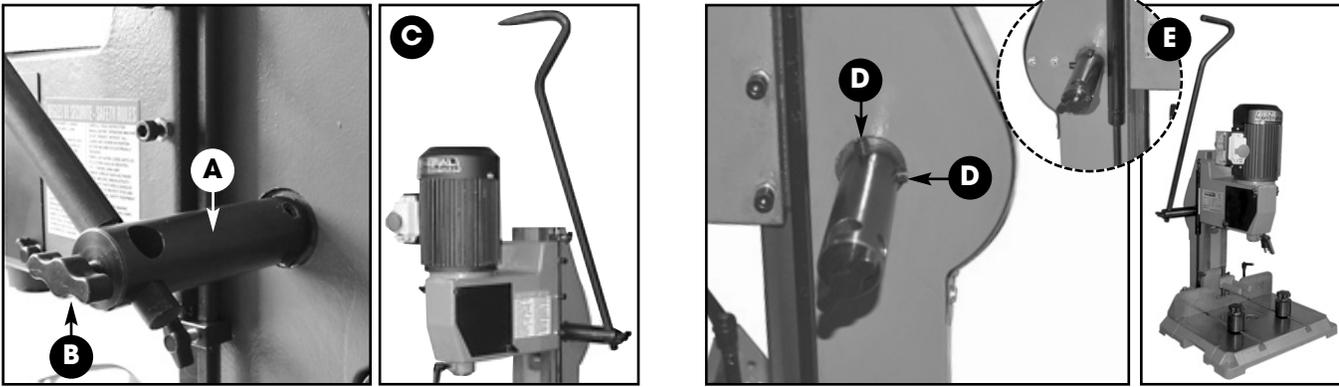
ATTACH THE WORKPIECE STOP



The workpiece stop can be installed on either side of the mortiser, **A**, to suit your needs or personal work preferences.

1. Thread the long stop bar into the threaded hole in the base and secure with the lock nut, **B**.
2. Install the stop bar block and short stop bar as shown in **C**.

INSTALL THE DOWN FEED HANDLE



The four holes in the down feed shaft **A** allow you to reposition the handle in the holes for better comfort and convenience.

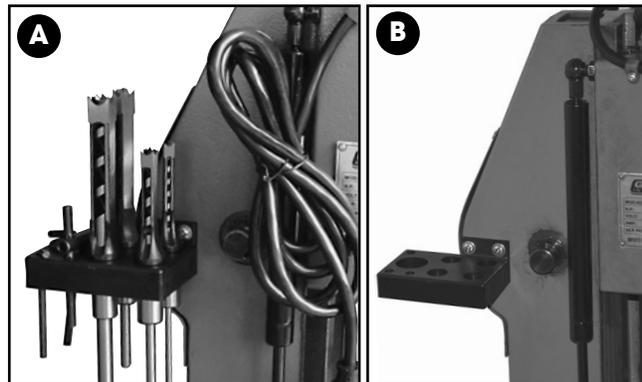
1. Loosen lock knob **B**.
2. Position the downfeed handle choosing the hole that provides the most comfortable handle angle.
3. Re-tighten the lock knob to secure the down feed handle in position **C**.

Note: If desired, the entire handle assembly can be removed by loosening the two set screws, **D**, and re-installed for use on the left-hand side of the machine as shown in **E**.

ATTACH THE TOOL AND CHISEL HOLDER

A convenient tool holder is supplied for chuck key, allen keys and chisels storage, **A**.

1. Install the tool and chisel holder to the left side of the machine using the two screws and washers already mounted, as shown in **B**.

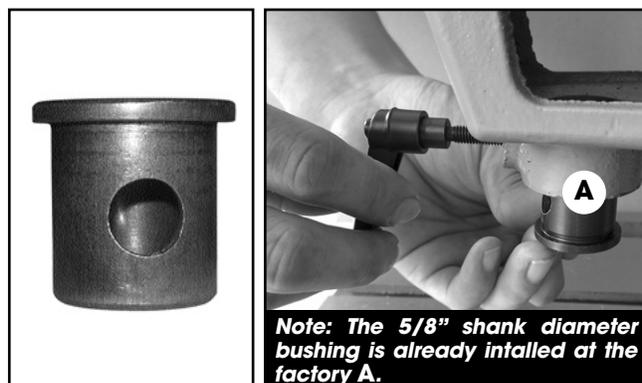
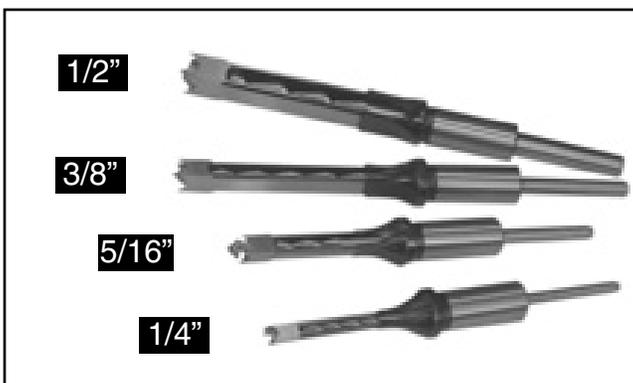


INSTALL A CHISEL AND BIT SET



TURN OFF AND UNPLUG THE MORTISER FROM THE POWER SOURCE BEFORE PERFORMING ANY MAINTENANCE, ADJUSTMENTS OR BIT CHANGES.

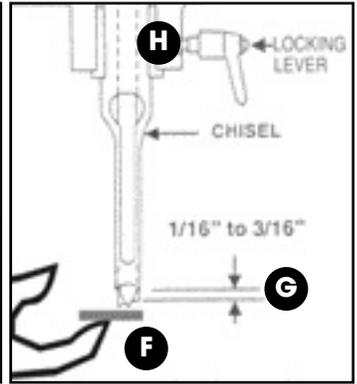
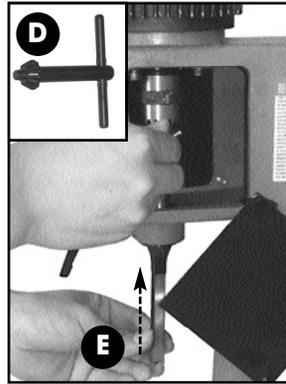
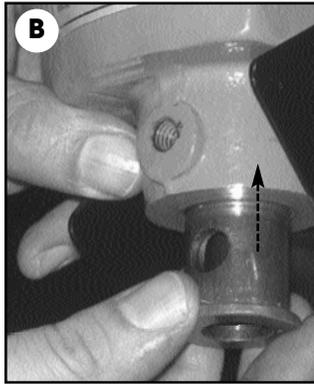
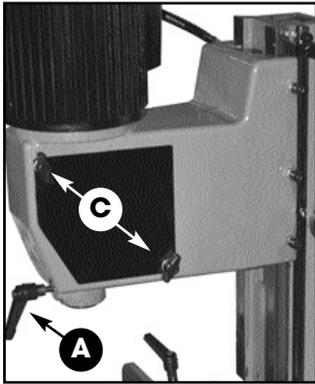
CHISEL AND BIT TIPS ARE VERY SHARP – HANDLE WITH CARE. TO AVOID PERSONAL INJURY USE A PIECE OF CARDBOARD, PLASTIC OR OTHER MATERIAL BETWEEN YOUR FINGER AND THE TIP OF THE BIT WHENEVER HOLDING OR HANDLING THE CHISEL AND BIT BY THE TIP.



Note: The 5/8" shank diameter bushing is already installed at the factory **A**.

This unit is supplied with a set of four different sized chisel and bits to help the user cut mortises of varying widths to suit the application.

The unit is also supplied with 2 different sized chisel support bushing adapters allowing the user to install chisel and bit sets of either 5/8" or 3/4" shank diameter, to accommodate bit sizes (some of which are available as optional accessories) ranging from a minimum of 1/4" up to a maximum of 5/8".

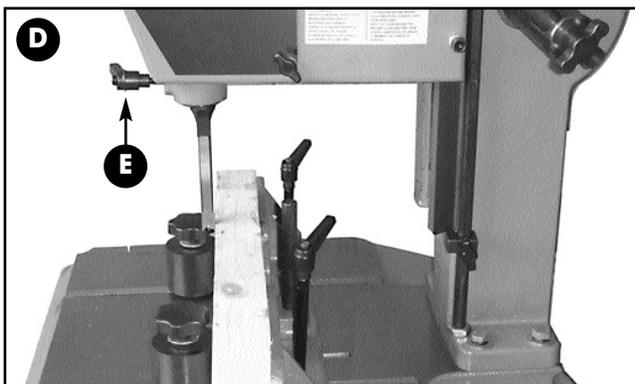
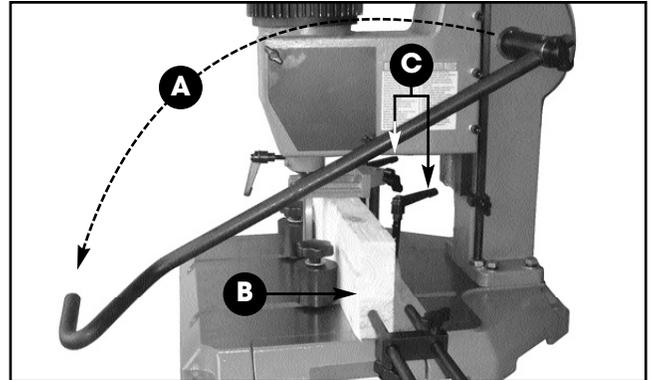


1. Select the appropriate size of chisel and bit.
2. Select the appropriate bushing and, if not already installed, unscrew and remove the locking lever **A** then slip the bushing into the quill assembly as shown, **B**.
3. Loosen the two lock knobs **C** on either side of the mortiser head and slide the corresponding slide plate out of the way.
4. Insert the supplied chuck key **D** and turn counterclockwise to open the chuck jaws and allow a drill bit to fit in **E**.
5. With a piece of plastic, cardboard or wood held between the tip of the bit and your finger **F**, install the chisel and bit with the chip clearing slot facing either left or right and tighten the bit in the chuck **F**, so that the tip of the bit juts out approximately 1/16" to 3/16" (2 mm to 5 mm) from the tip of the chisel, **G**.
6. While still holding the chisel in place, tighten the locking lever **H** to secure the chisel in the bushing.

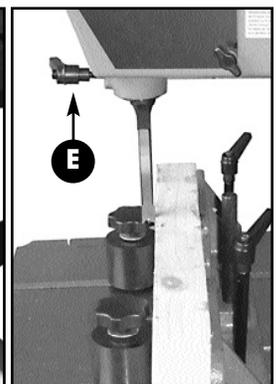
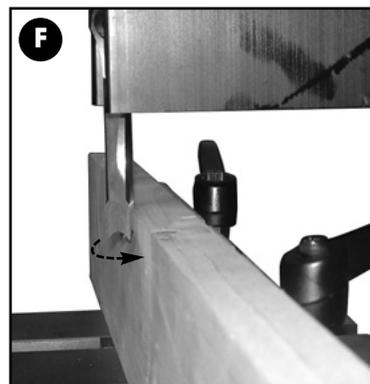
Note: Do not overtighten the locking lever as this can damage your mortiser.

TO SQUARE THE CHISEL TO THE FENCE

1. Lower the head to its maximum **A**.
 2. Place a piece of taller stock (minimum 3") against the fence **B**.
- Note: Make sure you are using a piece of planed and squared stock that has an even thickness.**
3. Loosen the fence locking levers **C** and slowly advance the fence with the piece of wood towards the chisel.



If the face of the chisel sits flush against the stock as shown in **D**, the chisel is square. Tighten the chisel locking lever **E** and proceed with normal operation.



If the chisel does not sit flush:

1. Loosen the chisel lock lever **E** and manually turn the chisel, **F**, until its face sits flush against the stock.
2. Lock lever **E** to secure the chisel in position.

BASIC ADJUSTMENTS & CONTROLS

CONNECTING TO A POWER SOURCE

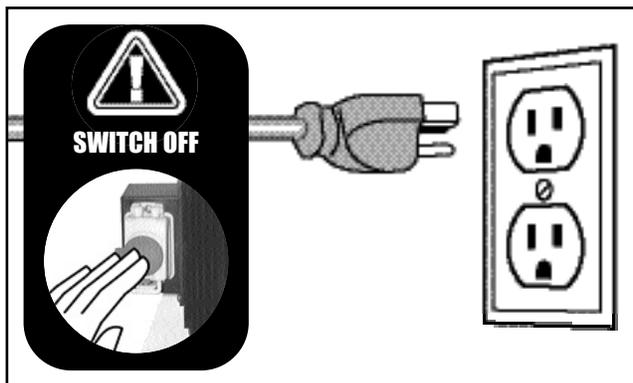


TO REDUCE THE RISK OF SHOCK OR FIRE DO NOT OPERATE THE UNIT WITH A DAMAGED POWER CORD OR PLUG. REPLACE DAMAGED CORD OR PLUG IMMEDIATELY.

TO AVOID UNEXPECTED OR UNINTENTIONAL START-UP, MAKE SURE THAT THE POWER SWITCH IS IN THE OFF POSITION BEFORE CONNECTING TO A POWER SOURCE.

Once the assembly steps have been completed and the unit is safely secured to a work surface, uncoil the power cord and plug the power cord into an appropriate outlet. Refer back to the section entitled "ELECTRICAL REQUIREMENTS" and make sure all requirements and grounding instructions are followed.

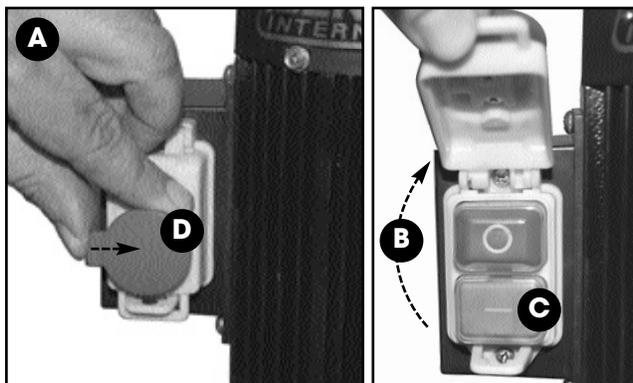
When mortising operations have been completed unplug the mortiser from the power source.



ON/OFF POWER SWITCH

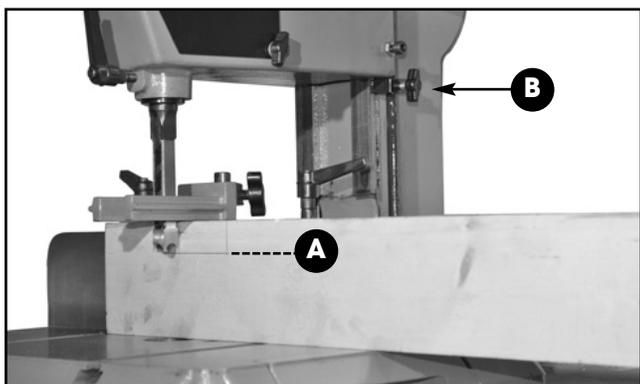
The mortiser is equipped with a safety ON/OFF switch located on the front left hand side of the mortiser head.

- To start the mortiser: Push on the red STOP button as shown in **A** to unlock the switch cover, then lift the switch cover up **B** and push on the green START button **C**. Close the switch cover.
- To stop the mortiser: push on the red STOP button **D**.

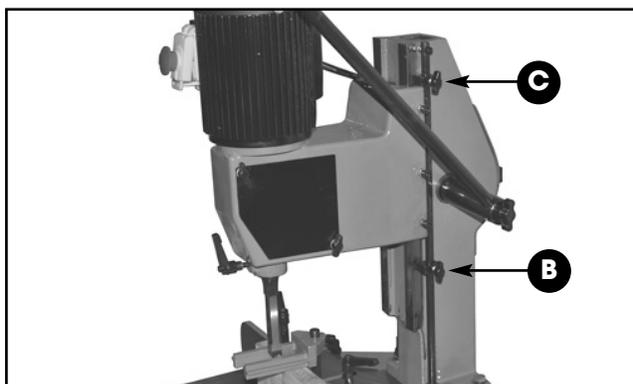


SETTING THE DEPTH STOP

Transfer a reference line showing the desired depth of cut onto the front face of the workpiece and then set the depth stop as follows:



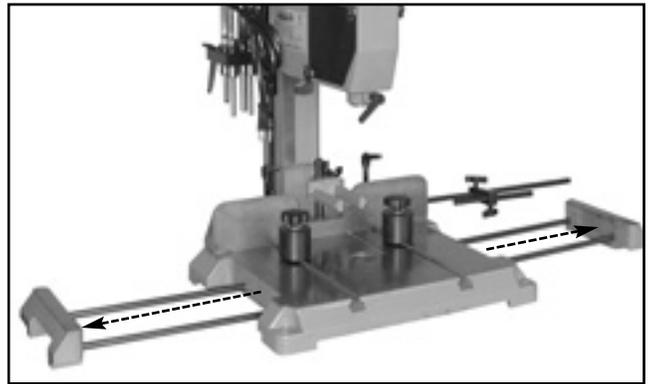
1. Lower the chisel to the bottom of your depth reference line **A** then adjust the depth stop against the stop plate as shown in **B** to prevent the chisel from lowering any further.



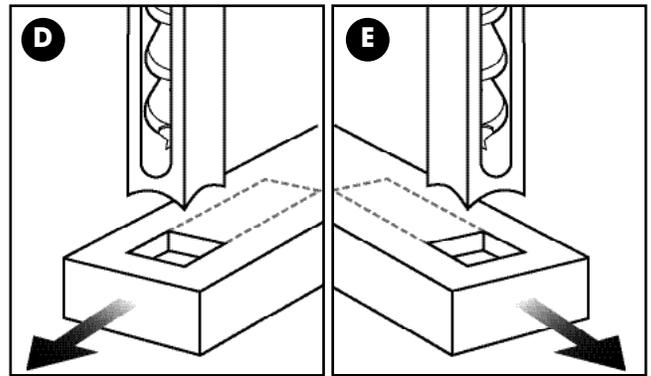
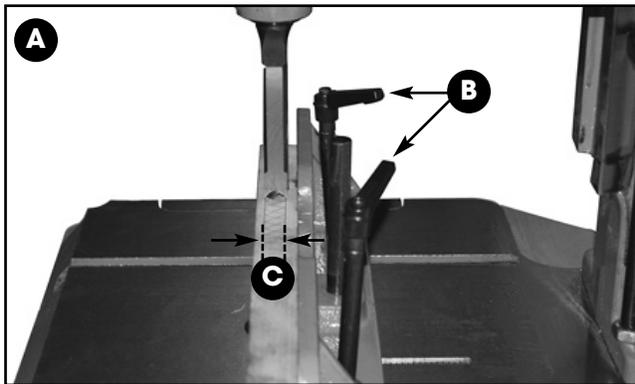
Note: As a time saving convenience, the upper stop, **C**, can be set to control the upward travel of the head. This feature allows you to save time by raising the bit only enough to clear the workpiece and allow you to reposition the workpiece without having to raise the head to its maximum.

TABLE EXTENSIONS

The mortiser is equipped with two telescopic table extensions for enhanced workpiece support when working with longer stock.



BASIC OPERATIONS

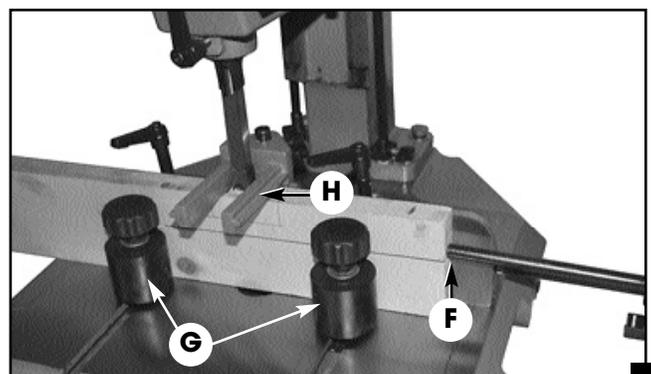


1. Layout and mark workpieces for the mortises to be cut.
 2. Install the appropriate chisel and bit in the chuck.
 3. Place the stock on the table against the fence **A**.
 4. Set the depth stop.
 5. Loosen the fence locking levers **B** and adjust the fence until the workpiece is positioned with the mortise to be cut centered on the chisel **C**.
- Note** If necessary, lower the chisel onto the workpiece to make sure the layout lines of the mortise are aligned with the bit.
6. With the fence now set to the correct front to back position, tighten the two fence locking levers to hold the fence in place.
 7. So that the chips are discharged into the part of the mortise which is already cut, and that the part to be cut remains well visible, set the workpiece on the table with the bit aligned with either:

- The left end of the mortise if the chip clearing slot is facing left **D**;
- The right end of the mortise if the chip clearing slot is facing right **E**;

Note: To avoid overheating or damage to the chisel or bit, do not position the slot against the blind end of the mortise as this would prevent the chips from discharging from the chisel.

8. If multiple workpieces are to be mortised in an identical manner, adjust the workpiece stop **F** to allow to position the next workpiece at the exact same location.
9. Tighten the table rollers **G** to hold the workpiece securely against the fence.
10. Lower the workpiece hold down until slightly above the workpiece **H** and tighten.





VERIFY ALL FOLLOWING CHECK POINTS BEFORE TURNING ON THE MORTISER. FAILURE TO COMPLY CAN RESULT IN SERIOUS INJURIES.

- MAKE SURE THE TWO SLIDE PLATES OF THE CHUCK COVER ARE CLOSED AND THEIR LOCK KNOBS ARE TIGHTENED SECURELY.
- MAKE SURE THE CHISEL AND BIT ARE PROPERLY INSTALLED AND THAT THE BIT CHUCK AND CHISEL LOCK LEVER ARE TIGHTENED SECURELY.
- WHEN THE MORTISER IS RUNNING CHECK TO SEE IF IT RUNS WITHOUT VIBRATION OR SHAKING.

11. Turn on the machine.

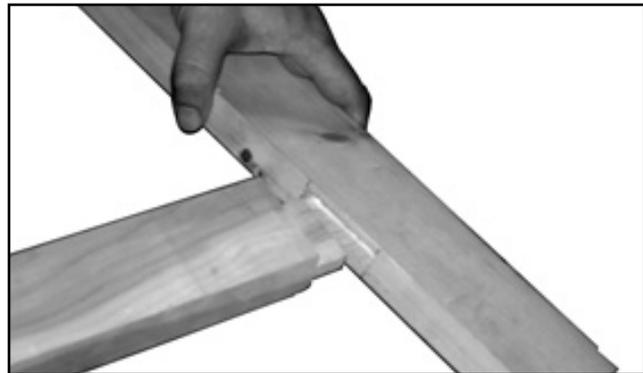
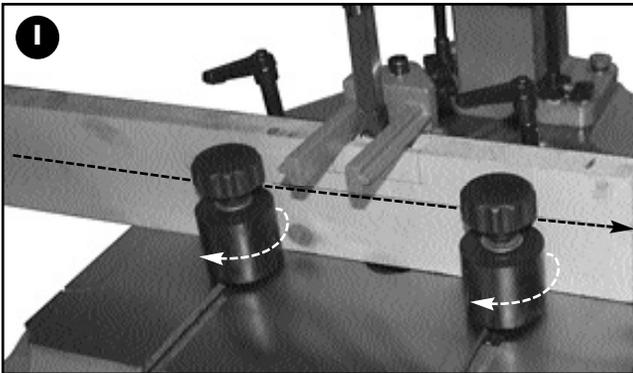
12. Lower the chisel into the workpiece using a steady even pressure until it bottoms out on the depth stop.

FEED RATE

Note: To prevent burning the tip of the bit, a steady feed rate is required. The machine may stall or slow down if the feed rate is too fast.

Tip: To allow chips to discharge when cutting deeper mortises or through mortises, cut the mortise to its full depth in several steps, by backing off periodically at roughly 3/8" - 1/2" intervals. Raising the bit back out of the mortise briefly, before plunging back in, allows the chips to discharge and can contribute to longer chisel and bit life and cleaner sharper mortises.

When cutting through mortises, place a piece of scrap wood under the workpiece to help prevent tear-out as the bit cuts its way through the opposite or exit face of the workpiece.



13. Raise the chisel.

14. Reposition the workpiece against the fence to continue the cut.

Tip: For added convenience and time savings, the table rollers allow you to "roll" the workpiece left or right, I, as needed to continue the next cut for the mortise slot.

15. Continue cutting the mortise.

16. Repeat to complete the mortise overlapping each cut slightly.

17. Test the fit of your tenon in the mortise J. Re-adjust if needed.

MAINTENANCE



MAKE SURE THE MORTISER HAS BEEN TURNED OFF AND UNPLUGGED FROM THE POWER SOURCE BEFORE PERFORMING ANY MAINTENANCE.

PERIODIC MAINTENANCE

- Keep the machine clean and free of dust, and woodchips. Vacuum or brush off any loose debris and wipe down the machine and the table occasionally with a damp rag.
- An occasional light coating of paste wax can help protect the table surface and reduce workpiece friction. Ask your local distributor for suggestions on aftermarket surface cleaners and protectants based on what is readily available in your area. (Avoid using silicon based products that may affect wood finishing products such as oil, solvent or water-based stains, varnishes and lacquers.)

Periodically inspect the power cord and plug for damage. To minimize the risk of electric shock or fire, never operate the mortiser with a damaged power cord or plug. Replace a damaged power cord or plug at the first visible signs of damage.

- Periodically inspect chisel and bits for signs of visible damage. Replace a chipped or damaged chisel or bit immediately.

SHARPENING CHISELS AND BITS

Working with properly sharpened chisel and bits will greatly increase the quality of your work and allow you to obtain clean, crisply cut mortises with minimal effort. With use over time chisels and bits will need to be re-sharpened. The frequency of use, type of workpiece material and the size and depth of the mortises you cut will affect how often or infrequently re-sharpening will be required.

You will find there are a variety of aftermarket sharpening tools made by third party sources that are available on the market for both the chisels and the bits for your mortiser. Your local distributor or tool retailer will be able to advise you of any sharpening tool options based on what is readily available in your area.



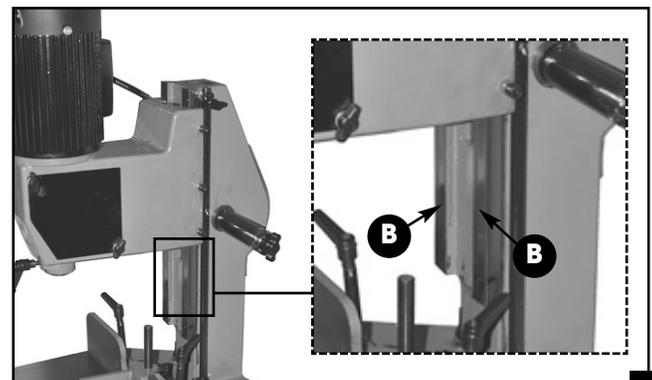
Take note that chisels should only be sharpened on their inside edges as any material removed from the outside edge will affect and change the overall dimensions of the chisel.

An example of a typical chisel sharpening cone is shown in **A**. Such cones are usually made available in sets or individually by size and should be matched to the size of the chisel – your local tool distributor or sharpening supplies specialist will be able to advise you further. For best results follow the instructions supplied with the sharpening tool or accessory being used.

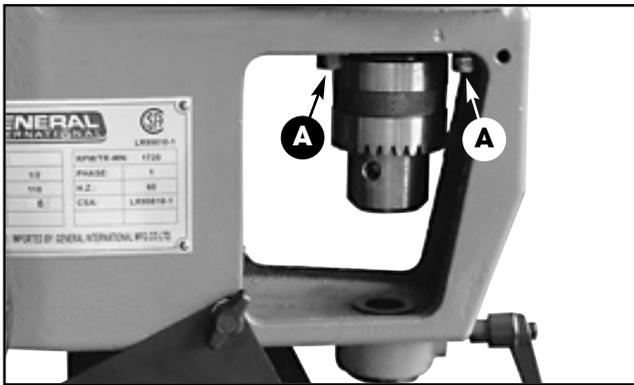
LUBRICATION

Keep both sides of the dovetail way, **B**, well lubricated and free of dust or debris. Clean and remove dust, debris, and old lubricant as needed depending on frequency of use. After cleaning, reapply a very light coating of lubricant.

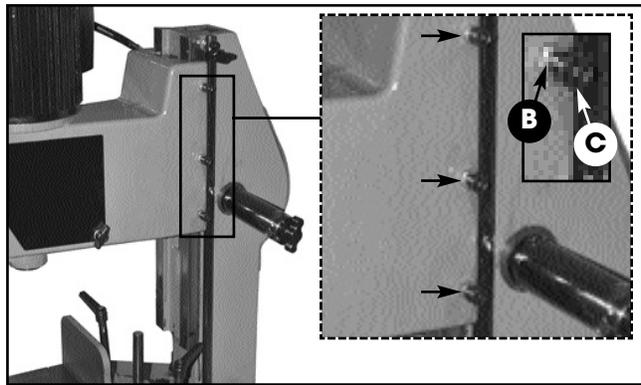
Note: Use any all-purpose oil, available at any hardware store).



REQUIRED MAINTENANCE



With use and normal wear over time, the motor assembly may loosen slightly. If you notice abnormal noise or vibrations, tighten the cap screws **A** (accessible behind the slide plates on both sides of the chuck), using the supplied 5 mm allen key.



With use over time, some slight play may develop in head on the dovetail way due to wear. To eliminate play between the head and the dovetail way, loosen the lock nuts **B**, and adjust the individual set screws **C** as needed. Re-tighten the lock nut(s) once the adjustment has been completed.

NOTE: Adjust only enough to eliminate play - do not over tighten as this can stiffen or restrict head travel, requiring more effort to complete the feed stroke and cause premature wear of the dovetail way.

RECOMMENDED OPTIONAL ACCESSORIES

Here are some of the optional accessories available from your local General International dealer.

For more information about our products, please visit our website at www.general.ca

REPLACEMENT CHISEL & BIT SETS

ITEM # 70-910A

1/4" (6 mm) mortising chisel & bit set, 5/8" (16 mm) shank

ITEM # 70-920A

5/16" (8 mm) mortising chisel & bit set, 5/8" (16 mm) shank

ITEM # 70-930

3/8" (10 mm) mortising chisel & bit set, 5/8" (16 mm) shank

ITEM # 70-940

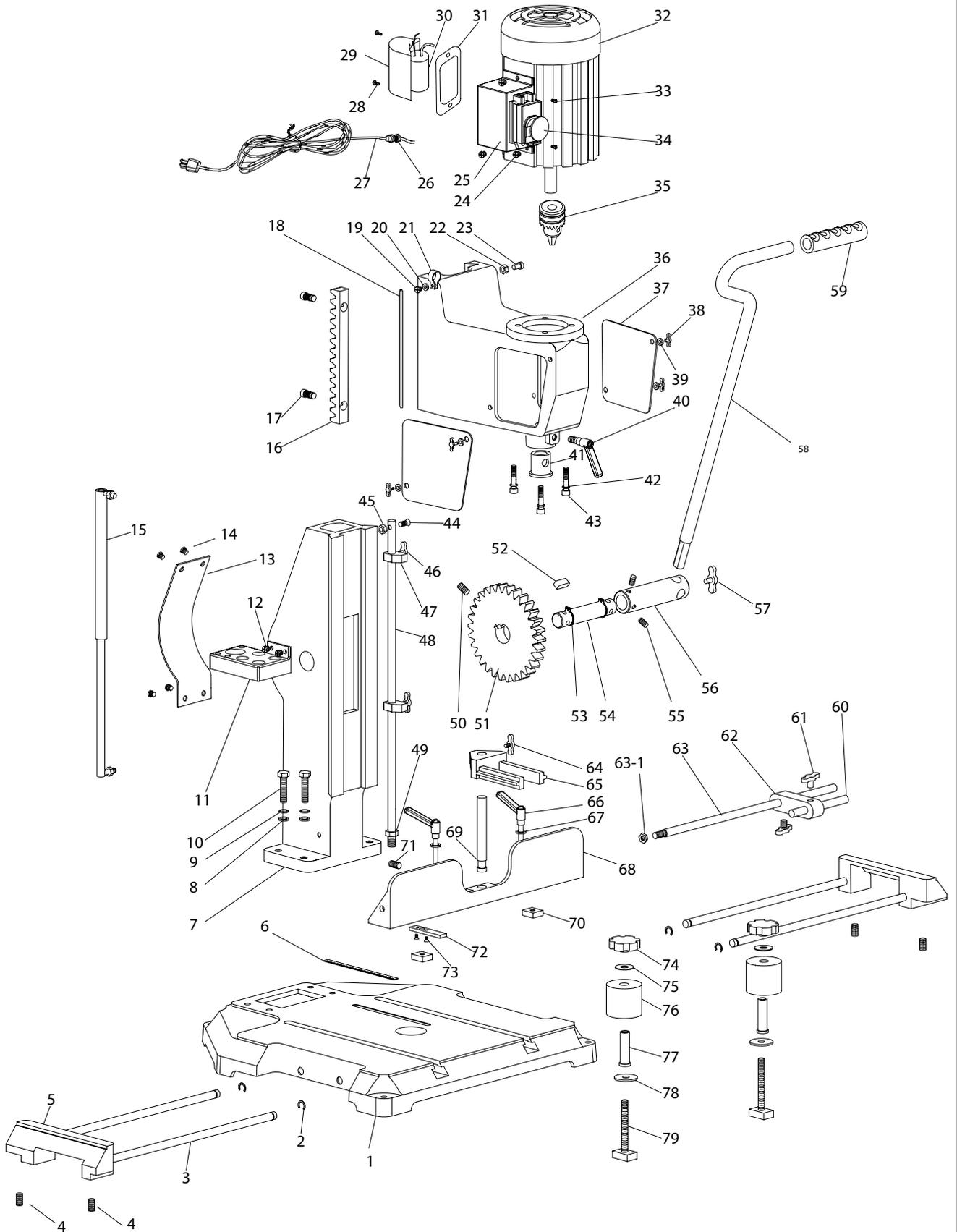
1/2" (13 mm) mortising chisel & bit set, 5/8" (16 mm) shank

ITEM # 70-950

5/8" (16 mm) mortising chisel & bit set, 5/8" (16 mm) shank



DIAGRAM



PARTS LIST 70-040 M1

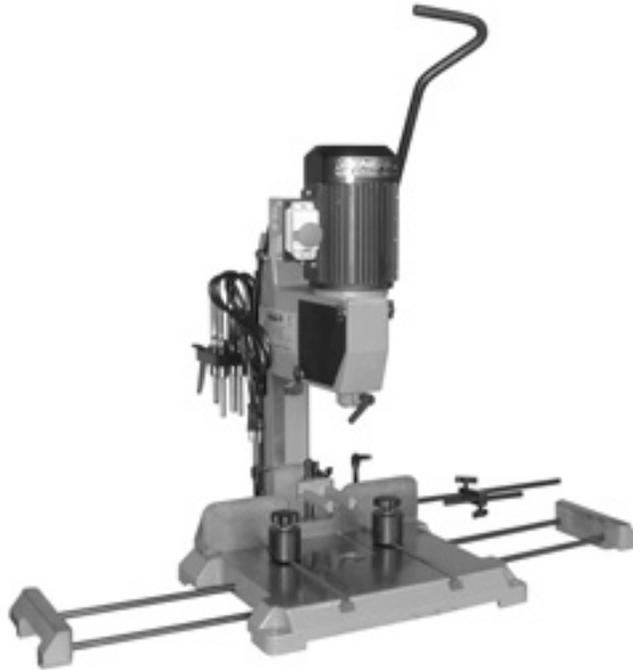
PART NO.	DESCRIPTION	SPECIFICATION	QTY
75040-01	BASE		1
75040-02	OPEN RETAINING RING	S-8	4
75040-03	EXTENSION BAR		4
75040-04	SET SCREW	M6 X 10 4	
75040-05	TABLE EXTENSION		2
75040-06	SCALE		1
75040-07	COLUMN		1
75040-08	FLAT WASHER		4
75040-09	LOCK WASHER		4
75040-10	HEX HEAD BOLT	M8 X 35	4
75040-11	TOOL & CHISEL HOLDER		1
75040-12	PAN HEAD SCREW	M5 X 35	2
75040-13	GEAR COVER		1
75040-14	PAN HEAD SCREW	M5 X 35	4
75040-15	GAS HEAD-CYLINDER		1
75040-16	RACK		1
75040-17	CAP SCREW	M6 X 16	2
75040-18	SLIDE BAR		1
75040-19	PAN HEAD SCREW	M5 X 10	1
75040-20	WASHER		1
75040-21	CORD CLAMP		1
75040-22	HEX NUT	M6	3
75040-23	CAP SCREW	M6 X 20	3
75040-24	PAN HEAD SCREW	M5 X 10	3
75040-25	SWITCH BOX		1
75040-26	CABLE TERMINAL		1
75040-27	POWER CORD		1
75040-28	PAN HEAD SCREW	M5 X 10	2
75040-29	CONDENSER COVER		1
75040-30	CONDENSER		1
75040-31	PACKING		1
75040-32	MOTOR		1
75040-33	SCREW	M4 X10	2
75040-34	SWITCH		1
75040-35	CHUCK	JT33	1
75040-36	HEAD		1
75040-37	SLIDE PLATE	2	
75040-38	LOCK KNOB	M6 X 10	4
75040-39	WASHER		4
75040-40	LOCKING LEVER	M6 X 15	1
75040-41	BUSHING ADAPTER		2
75040-42	LOCK WASHER		4
75040-43	CAP SCREW	M6 X 40	4
75040-44	PAN HEAD SCREW	M5 X 20	1
75040-45	NUT	M5	1
75040-46	LOCK KNOB	M6 X 10	2
75040-47	DEPTH STOP	2	
75040-48	DEPTH STOP BAR		1
75040-49	HEX NUT	M8	1
75040-50	SET SCREW	M6 X 10	1
75040-51	GEAR		1
75040-52	KEY	6 X 6 X18	1
75040-53	OPEN RETAINING RING	S-20	2
75040-54	PINION SHAFT		1
75040-55	SET SCREW	M8 X 10	2
75040-56	DOWNFEED SHAFT		1
75040-57	LOCK KNOB	M8 X 15	1

PARTS LIST 75-040 M1

PART NO.	DESCRIPTION	SPECIFICATION	QTY
75040-58	DOWNFEED HANDLE		1
75040-59	RUBBER HANDLE GRIP		1
75040-60	STOP BAR (SHORT)		1
75040-61	LOCK KNOB	M8 X 15	2
75040-62	STOP BAR BLOCK		1
75040-63	STOP BAR (LONG)		1
75040-63-1	NUT	M8	1
75040-64	LOCK KNOB	M8 X 15	1
75040-65	WORKPIECE HOLD DOWN		2
75040-66	LOCKING LEVER	M6 X 90	2
75040-67	WASHER		1
75040-68	FENCE		1
75040-69	WORKPIECE HOLD DOWN SHAFT		2
75040-70	NUT		1
75040-71	SET SCREW	M6 X 10	1
75040-72	SLIDE BAR		2
75040-73	SCREW	M4 X 10	2
75040-74	LOCK KNOB		2
75040-75	WASHER		2
75040-76	RUBBER ROLLER		2
75040-77	BUSHING		2
75040-78	WASHER		2
75040-79	T-SCREW	M10 X 70	2
70-910A	1/4" REPLACEMENT CHISEL AND BIT SET (NOT SHOWN)		1
70-915	1/4" REPLACEMENT CHISEL ONLY (NOT SHOWN)		0
70-916A	1/4" REPLACEMENT BIT ONLY (NOT SHOWN)		0
70-920A	5/16" REPLACEMENT CHISEL AND BIT SET (NOT SHOWN)		1
70-925	5/16" REPLACEMENT CHISEL ONLY (NOT SHOWN)		0
70-926A	5/16" REPLACEMENT BIT ONLY (NOT SHOWN)		0
70-930	3/8" REPLACEMENT CHISEL AND BIT SET (NOT SHOWN)		1
70-935	3/8" REPLACEMENT CHISEL ONLY (NOT SHOWN)		0
70-936	3/8" REPLACEMENT BIT ONLY (NOT SHOWN)		0
70-940	1/2" REPLACEMENT CHISEL AND BIT SET (NOT SHOWN)		1
70-945	1/2" REPLACEMENT CHISEL ONLY (NOT SHOWN)		0
70-946	1/2" REPLACEMENT BIT ONLY (NOT SHOWN)		0
70-950	5/8" REPLACEMENT CHISEL AND BIT SET (OPTIONAL ACCESSORY - NOT INCLUDED) (NOT SHOWN)		0
70-955	5/8" REPLACEMENT CHISEL ONLY (NOT SHOWN)		0
70-956	5/8" REPLACEMENT BIT ONLY (NOT SHOWN)		0

Notes

MODEL 75-040 M1



8360 Champ-d'Eau, Montreal (Quebec) Canada H1P 1Y3

Tel.: (514) 326-1161

Fax: (514) 326-5565 - Parts & Service / Fax: (514) 326-5555 - Order Desk

orderdesk@general.ca
www.general.ca

IMPORTANT

When ordering replacement parts, always give the model number, serial number of the machine and part number. Also a brief description of each item and quantity desired.